

Job Risk Analysis																	
Name(s) of Risk Team Members: A. Warkentien, J. Maraviglia				Point Value → Parameter ↓		1		2		3		4		5			
Job Title: Welder's Helper or Welding Fire Watch				Frequency (B)		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift			
Job Number or Job Identifier: JRA # 21-05				Severity (C)		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability			
Job Description: C-AD Technician assisting a welder, <u>OR</u> serving as a Fire Watch for welding; Installation of piping for A20 cold snake				Likelihood (D)		Extremely Unlikely		Unlikely		Possible		Probable		Multiple			
Training and Procedures List (optional): Training: Fire Watch, Practical Fire Extinguisher, Compressed Gas Cylinder Safety, Electrical Safety, C-AD Electrical Safe Work Practices Training, Back Safety Procedures: ES&H Standard 4.3.0 Cutting & Welding.																	
Approved by: E. Lessard Date: 6-15-05 Rev. #: 1																	
Stressors (if applicable, please list all):				Reason for Revision (if applicable): Corrected errors						Comments:							
				Before Additional Controls										After Additional Controls			
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction	
Assist in setting up work area - including LOTO of MMPS	Electrical hazards	Training (Electrical Safety, LOTO, C-AD Electrical Safe Work Practices Training), proper selection of PPE, work planning	N	1	2	5	2	20									
Assist in setting up work area	Falls to lower level, such as falling to an open pit area	Training, fall protection, work planning	N	1	2	5	2	20									
Assist in setting up work area	Overexertion – injuries caused by excessive lifting, pushing, pulling, holding, or carrying of an object	Training (back safety, compressed gas cylinder safety) proper selection of PPE, use of hand trucks, dollies, etc, work planning	N	1	2	4	2	16									

Fire Watch	Fire	Fire watch training, practical fire extinguisher training, Cutting/Welding (Hot Work) Permit, Fire/Rescue Group response, BNL ES&H Standard 4.3.0 Cutting and Welding, work planning, working in designated "safe" area, barriers, radio/phone communications, STOP DROP and ROLL technique	N	1	2	2	2	8								
Fire Watch	Eye exposure to UV light, eye exposure to visible light	Hazard-specific safety eyewear (proper tint and wavelength)such as safety goggles which fit up against the face with no gaps (as opposed to having gaps with safety 'glasses'), and which block UV and visible light but still allow individual to see to work area; work planning, barriers.	N	1	2	2	2	8								
Assist welder at work area	Being struck by an object, such as a tool falling on a worker from above or flying debris	Proper selection of PPE (gloves, safety glasses, safety shoes), work planning, barriers	N	1	2	2	2	8								
Assist welder at work area	Eye exposure to UV light, eye exposure to visible light	Hazard-specific safety eyewear (proper tint and wavelength)such as safety goggles which fit up against the face with no gaps (as opposed to having gaps with safety 'glasses'), and which block UV and visible light but still allow individual to see to work area; work planning, barriers.	N	1	2	2	2	8								
Assist welder at work area	Burns	Proper selection of PPE (gloves, safety glasses, safety shoes), work planning, working in designated "safe" area, barriers	N	1	2	2	3	12								
Assist welder at work area	Radiation exposure inside AGS tunnel	Work planning (work done outside radiological area as much as possible to reduce time in tunnel), exposure monitoring (TLD as well as SRD), RW-1 training, C-AD Access Training, RWP, activation checks, area surveys, survey maps	N	1	2	3	2	12								
Cutting pipe inside the tunnel	Electrical shorts due to metal shavings dispersing and getting into electrical circuitry	Use of tubing cutters which don't produce shavings, proper cleanup of area, tool inventory (what went into the area, came out of the area)	N	1	2	3	2	12								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20		21 to 40			41-60			61 to 80			81 or greater				
	Negligible		Acceptable			Moderate			Substantial			Intolerable				